

SA2C



SOUND ADVANCE

The Sound Advance® SA2C is a two-way, full-range planar loudspeaker system designed for use in commercial installations. (For residential installations we recommend using the SA2 version, which is transformerless.) Proprietary structural and engineering features make it possible to invisibly install the SA2C in almost any standard wood/metal stud wall or ceiling: the speaker essentially becomes an integral part of the wall or ceiling surface. Patented Planar Diaphragm Technology™ allows SA2Cs that have been properly installed in a ceiling or wall boundary to radiate sound in a 140° hemispherical pattern with smooth, even coverage throughout its bandwidth.

The Sound Advance SA2C employs a flat rigid diaphragm, approximately one-half inch thick, that installs into a standard wall cavity replacing the equivalent surface area of gypsum board. The supplied flat vellum overlay which is applied to the loudspeaker surface during installation may be finished with water-soluble materials — such as latex paints — to match any color or decor requirement, using conventional brush-on, roller, or airless spray application systems. Additionally, the SA2C may be covered using wallpaper, light-weight vinyl wall coverings and selected textured coatings. (Please contact the factory before applying any textured coating to Sound Advance products).

The SA2C's exclusive installation methods, including the use of matching surface treatments, uniquely allows the speaker to be made truly invisible. This capability allows the loudspeaker system to be placed wherever optimal acoustics dictate, eliminating any visual concerns. The SA2C utilizes a 12dB per octave crossover centered at 2kHz, with both low-pass and high-pass sections. Each loudspeaker contains two independent protection circuits (high-frequency and low-frequency) that automatically reset after an overload condition has been removed. The SA2C is transformer-coupled, with the following input taps: 0.5W, 1W, 2W, 4W, 8W, 16W, 32W and 4-ohm bypass.

Recommended Installations:

- Invisibly flush-mounted into walls or ceilings

Recommended Environment:

- Indoor or weather-protected outdoor

Required Accessories:

- PBB4: 4" deep backbox for wall installation. 21-1/4" H x 14-1/4" W x 3-1/4" D (540mm x 362mm x 83mm) 8.4 lb (3.8kg)
- PBB6: 6" deep backbox for ceiling installation. 21-1/4" H x 14-1/4" W x 5-1/4" D (540mm x 362mm x 133mm) 10.1lb (4.6kg)

Recommended Accessories:

- ICC™ active electronic correction and response compensation processor
- Power Amplifiers such as Sonance® Sonamp® amplifiers with BBE® Sound Enhancement

Performance Specifications:

Radiating Surface: 294.0 in² (1869.0cm²) Planar Diaphragm

Tweeter System: 0.82 lb (0.37 kg) Magnet with 1.02" (26mm) voice coil, 12dB/octave high-pass crossover @ 2kHz

Woofer System: 0.82 lb (0.37 kg) Magnet with 1.02" (26mm) voice coil, 12dB/octave low-pass crossover @ 2kHz

Frequency Response: 70Hz – 20kHz ±4dB

Power Rating: 60 Watts RMS as per EIA standard RS-426-A

Pressure Sensitivity: 90dB SPL @ 1 meter

System Impedance: 4 ohms nominal; 3.5 ohms minimum

Transformer: Primary Voltage — 70.7 Volts, Primary Taps — 0.5, 1, 2, 4, 8, 16, 32 Watts; 4-ohm bypass

Dispersion: 140° hemispherical, up to 20kHz (see Polar Response graphs)

Finish: Primed surface ready to receive supplied vellum overlay

Overload Protection: Two independent self-resetting gel switches

(low frequency and high frequency)

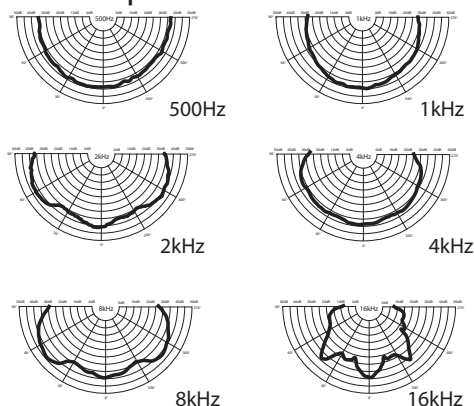
Dimensions (H x W x D): 21" x 14" x 3" (534mm x 350mm x 76mm)

Product Weight: 7.7 lbs. (3.5kg) each

Shipping Weight: 16 lbs. (7.3kg) each, including finishing supplies and vellum overlay

Included Supplies: Vellum overlay, joint compound, overlay adhesive, measuring cup, rubber standoffs, screws, washers, hex key

Polar Response:



Warranty:

Sound Advance warrants the SA2C to be free of any defect in material of workmanship for a period of 15 years. Should a properly-installed SA2C speaker fail, Sound Advance will replace the device at no charge, including shipping costs and labor for removal and reinstallation.